

IDRIS ATTAR

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Full-stack engineer with 6+ years building fast, reliable systems across any stack, any framework, end-to-end.

PROFESSIONAL EXPERIENCE

Layopay, Remote Senior Software Engineer

2023 – 2025

- Led the architecture and full-stack development of a multi-merchant POS platform using **Flutter**, **Firestore**, and **Firestore** with real-time syncing and role-based access control.
- Reduced Firestore reads by 65% and improved load times by 2x by implementing a **Redis** read-through cache and optimized **data-fetching strategies**, cutting backend infra costs by 40%.
- Built a cross-platform **ESC/POS printer driver** in **Dart FFI**, supporting **Sunmi**, **Star**, **Landi**, and **Saturn** hardware; halved hardware integration time.
- Developed a **plugin-based payment gateway** supporting **Rapyd**, **PAX**, **TidyPay**, and **Sunmi**, reducing payment integration effort by 95%.
- Migrated CI/CD to **GitHub Actions** (mobile) and **Azure Pipelines** (backend) with end-to-end **test automation**, improving reliability and deployment frequency.
- Integrated **Datadog APM** with custom dashboards and alerting pipelines, reducing incident resolution time by 50% and improving observability
- **Stack:** Flutter, Firebase, Dart FFI, Redis, Node.js, GitHub Actions, Azure Pipelines, Datadog, CI/CD, Firestore, REST APIs, ESC/POS

Neosoft, Pune, India Software Engineer

2022 – 2023

- Built a shared **design system** using **Storybook** and **React** with **TailwindCSS**, cutting UI bugs by 40% and streamlining onboarding.
- Rescued a stalled **React Native** app, rewrote unstable modules using **TypeScript**, and shipped a stable MVP 4 months early.
- Created a **Microsoft Intune** bridge for **zero-touch deployment** across 15,000+ Android devices; integrated with **Android Enterprise APIs** and automated policies.
- Automated **AWS infrastructure** (EC2 spot fleets, S3 lifecycle) using **Terraform**, reducing cloud spend by 30% with infrastructure-as-code best practices.
- Mentored 6 engineers on **clean architecture**, **performance profiling**, and debugging workflows using tools like **Chrome DevTools**, **Redux DevTools**, and **Flutter DevTools**.
Bridged **frontend (React/Flutter)** and **backend (Node.js)** teams for faster delivery in enterprise healthcare and field service apps.
- **Stack:** React Native, Storybook, Terraform, AWS (EC2, S3), Microsoft Intune, Redux, TypeScript, REST APIs, Android, CI/CD

CreativityIT, Kuwait City, Kuwait UI/UX Engineer

2018 – 2021

- Led redesign of a mobile-first e-commerce suite using Ionic 5 and Angular 12, scaling to 50,000+ MAUs with responsive layouts and RTL language support.
- Created a Storybook-powered component library with detailed documentation, cutting duplicated UI code by over 60%.
- Conducted UX research and WCAG accessibility audits, boosting Lighthouse accessibility score from 71 to 96.
- Managed full product lifecycle from Figma prototypes to Firebase/Nginx deployment, coordinating between design, QA, and DevOps.
- Delivered performant releases under tight deadlines with Angular Lazy Modules, Webpack optimizations, and multiple brand themes.
- **Stack:** Ionic 5, Angular 12, TypeScript, Figma, Storybook, WCAG, Firebase Hosting, REST APIs, CSS3, HTML5, Nginx

Generative UI Builder - Prompt-to-UI React system using BAML

- Built a dynamic UI generation engine that turns user prompts into fully composed React components using BAML and structured metadata.
- Designed a modular component system with real-time layout generation, prop bindings, and context-aware rendering logic.
- Architected the system to support future extension into Flutter and other frontend frameworks.

Stack: React, TypeScript, BAML, Modular Design, Prompt Orchestration

Kora - Emotion-aware journaling app with local-first privacy

- Designed and developed a markdown-first journaling platform that uses LLMs to generate emotional insights and reflection prompts.
- Implemented BYOK support for ethical AI workflows, allowing users to run local or cloud-based models securely.
- Built encrypted, local-first storage with user-controlled deletion workflows that meet GDPR compliance standards.

Stack: Markdown, LLMs, BAML, Flutter Web, LocalStorage, Firebase (optional), AES Encryption

Flutter AI Activity Monitor - Background app usage tracking with AI insights

- Developed a Flutter-based app to passively monitor app usage with sqflite + background services.
- Implemented local data aggregation and trained models to analyze focus patterns and detect digital burnout.
- Showcased performance graphs and trends directly in the UI, enabling real-time personal productivity feedback.

Stack: Flutter, Dart, sqflite, AI Insights, Android Services

Social - Scalable full-stack clone using Next.js App Router

- Developed a Twitter-like social media platform with follows, threads, replies, and profile systems.
- Architected with scalability in mind: clean folder structure, modular components, and full route protection.
- Used for onboarding and authentication experiments, including role-based UIs and session management.

Stack: Next.js 14+, TypeScript, ShadCN UI, Zustand, Firebase Auth

Cache Wrapper - Lightweight caching layer for Dart/Flutter apps

- Created a flexible, composable wrapper for caching models locally across in-memory, persistent, and networked layers.
- Supports Redis fallback, TTL policies, deep nested serialization, and automatic write queues.
- Used across multiple apps including POS and journaling platforms for performance boost and Firestore read reduction.

Stack: Dart, Flutter, SharedPreferences, Redis, TTL logic, JSON serializers

EDUCATION

Pacific University (Udaipur)

2013 - 2016

Diploma - Computer Science

- Completed a 3-year technical diploma with a strong focus on systems design, embedded computing, and full-stack application development.
- Built and deployed early projects using Raspberry Pi clusters, integrating real-time sensors, IoT dashboards, and Linux-based automation workflows.
- Self-hosted backend services on local servers to simulate production environments using Docker, Nginx, and Firebase alternatives, gaining early exposure to DevOps and deployment pipelines.
- Balanced coursework with self-initiated experiments in system administration, privacy-first infrastructure, and network architecture.

SKILLS & OTHER

Frontend

React.js, React Native, Next.js (App Router), Remix, TailwindCSS, Framer Motion, Styled Components, Radix UI, Zustand, Redux, WCAG/ARIA Accessibility, UI/UX Design, Responsive Design, Modular Component Systems, SSR/ISR, D3.js, Chart.js, Recharts

Backend

Node.js, Express.js, NestJS (TypeScript), Python (FastAPI, asyncio), Django (basic), WebSockets, REST & RPC APIs, GraphQL (basic), tRPC, Supabase/Firebase Auth, Authentication (JWT, OAuth2, RBAC), Stripe, Razorpay, File Uploads, Redis Queueing, Pub/Sub, Background Jobs

DevOps & Infrastructure

Docker, GitHub Actions, Supabase, Firebase, PostgreSQL, MongoDB, Redis (basic), AWS (EC2, Lambda, S3, IAM, CloudWatch), Azure App Services, Entra ID, CI/CD, Vercel, Netlify, Railway, Serverless Architecture, Microservices, Monorepos, Feature Flags, Observability

AI & Integrations

OpenAI (GPT-3.5/4), Azure OpenAI, Grok AI, LangChain (basic), Hugging Face Transformers, LlamaIndex, SentenceTransformers, Prompt Engineering, Agent Workflows, PDF Parsing, Resume Analysis, Embedding Vectors, TTS/STT, Semantic Search, AI Chatbots, Webhook Integrations, Language Interpretation